

What is claimed is:

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1. A slave device which is connected through a predetermined coupling device to a host device comprising a file system and an application program, the slave device comprising:

5 a media driver for performing connection to the file system of the host device via the predetermined coupling device according to a predetermined protocol; and

10 a storage device which is connected to the file system of the host device via the media driver, wherein at least a portion of the storage device operates as a storage device of the host device when the application program is used by the host device.

2. The slave device of claim 1, wherein the media driver comprises a control and error correction unit for controlling the storage device and detecting and correcting errors.

3. The slave device of claim 2, wherein the control and error correction unit comprises a predetermined protocol layer for performing connection to a control and error correction unit of the host device.

4. The slave device of claim 2, wherein the media driver further comprises a logical-to-physical converter for converting logical location information used by the file system into physical location information.

5. The slave device of claim 4, wherein the logical-to-physical converter comprises a predetermined protocol layer for performing connection to a logical-to-physical converter of the host device.

6. The slave device of claim 4, wherein the media driver further comprises a file system driver for abstracting data stored in the storage device of the slave device to allow the application program to access the data stored in the storage device as a file using the logical location information.

7. The slave device of claim 6, wherein the file system driver comprises a predetermined protocol layer for performing connection to a file system driver of the host device.

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5 8. A host device connected to a slave device comprising a storage device through a predetermined coupling device, the host device comprising a file system for performing connection to a top layer of the slave device according to a predetermined protocol so that at least a portion of the storage device of the slave device operates as a storage device of the host device.

9. The host device of claim 8, further comprising a top layer identification unit for identifying the top layer of the slave device during initialization for connection to the slave device.

10. The host device of claim 8 or 9, wherein the file system comprises:

a control and error correction layer for detecting and correcting errors;

a logical-to-physical conversion layer for converting logical location

5 information used by the file system into physical location information; and

a file system drive layer for abstracting data stored in the storage

device of the slave device to allow application programs to access the data as a  
file using the logical location information.

11. A data sharing method between a host device and a slave  
device, comprising the steps of:

(a) physically connecting the host device to the slave device through  
predetermined coupling device;

5 (b) performing connection between the host device and the slave  
device according to a predetermined protocol between a top layer of the slave  
device and a file system of the host device so that at least part of a storage  
device of the slave device operates as a storage device of the host device; and

(c) accessing the storage device of the slave device by the host device  
10 via the file system of the host device, the top layer of the slave device and a  
bottom layer of the slave system.

12. The method of claim 11, wherein step (a) further comprises  
identifying the top layer of the slave device.

13. The method of claim 12, wherein step (b) comprises  
performing connection according to a predetermined protocol between a

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control and error correction layer of the host device, which controls the storage device and detects and corrects errors, and a control and error  
5 correction layer of the slave device, when the top layer of the slave device is identified as the control and error correction layer for detecting and correcting errors in step (a).

14. The method of claim 12, wherein step (b) comprises performing connection according to a predetermined protocol between a logical-to-physical conversion layer of the host device, which converts logical location information used by the file system into physical location  
5 information, and a logical-to-physical conversion layer of the slave device, when the top layer of the slave device is identified as the logical-to-physical conversion layer for converting logical location information used by the file system into physical location information in step (a).

15. The method of claim 12, wherein the step (b) comprises performing connection according to a predetermined protocol between a file system drive layer of the host device, which abstracts data stored in the storage device of the slave device to allow application programs to access the data as a  
5 file using logical location information, and a file system drive layer of the slave device, when the top layer of the slave device is identified as the file system drive layer for abstracting data stored in the storage device of the slave device to allow application programs to access the data as a file using logical location information in the step (a).